

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 18, 2003, 21:58:12 ; Search time 24 Seconds
(without alignments)
719.636 Million cell updates/sec

Title: US-09-815-923-4

Sequence: 1 MPPSDAPPAPAPPPDLPAT.....TTPREVTSTPPADSLCNL 587

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

al number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PTUS.COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1726	55.0	630	1	US-07-959-943-11 Sequence 11, Appl
2	1712	54.5	630	1	US-07-959-943-9 Sequence 9, Appl
3	1710	54.4	607	1	US-07-959-943-7 Sequence 7, Appl
4	1699	54.1	607	1	US-07-879-617A-12 Sequence 12, Appl
5	1699	54.1	607	1	US-08-753-985-12 Sequence 12, Appl
6	1664.5	53.0	653	1	US-07-782-298-2 Sequence 2, Appl
7	1605.5	51.1	617	1	US-07-879-617A-11 Sequence 11, Appl
8	1605.5	51.1	617	1	US-08-301-722A-3 Sequence 3, Appl
9	1605.5	51.1	617	1	US-08-240-783B-3 Sequence 3, Appl
10	1605.5	51.1	617	1	US-08-753-985-11 Sequence 11, Appl
11	1605.5	51.1	617	3	US-09-084-813-3 Sequence 3, Appl
12	1605.5	51.1	617	5	PCT-US92-09662-3 Sequence 2, Appl
13	1542	49.1	620	1	US-08-301-722A-2 Sequence 2, Appl
14	1535	48.6	619	1	US-07-762-132A-2 Sequence 2, Appl
15	1525	48.6	619	1	US-08-301-722A-4 Sequence 4, Appl
16	1476.5	47.0	616	1	US-07-879-617A-13 Sequence 13, Appl
17	1476.5	47.0	616	1	US-08-753-985-13 Sequence 13, Appl
18	1369.5	43.6	797	4	US-09-182-728A-2 Sequence 2, Appl
19	1369.5	43.6	797	4	US-09-795-232-2 Sequence 2, Appl
20	1368.5	43.6	797	2	US-08-700-013B-19 Sequence 19, Appl
21	1368.5	43.6	797	4	US-09-191-468-124 Sequence 124, App
22	1367.5	43.5	797	4	US-09-191-468-122 Sequence 122, App
23	1363.5	43.4	797	4	US-09-191-468-120 Sequence 120, App
24	1363.5	43.4	797	2	US-08-700-013B-27 Sequence 27, Appl
25	1360.5	43.3	797	2	US-08-700-013B-21 Sequence 21, Appl
26	1358.5	43.3	599	1	US-08-301-722A-5 Sequence 5, Appl
27	1347.5	42.9	599	1	US-08-295-814E-11 Sequence 11, Appl

28	1347.5	42.9	599	1	US-08-240-783B-4 Sequence 4, Appl
29	1347.5	42.9	599	3	US-09-084-813-4 Sequence 4, Appl
30	1347.5	42.9	599	4	US-09-343-361-11 Sequence 11, Appl
31	1347.5	42.9	599	5	PCT-US92-09662-4 Sequence 4, Appl
32	1322.5	42.1	599	1	US-07-879-617A-10 Sequence 10, Appl
33	1322.5	42.1	599	1	US-08-753-985-10 Sequence 10, Appl
34	1271	40.5	627	4	US-08-295-814E-4 Sequence 4, Appl
35	1271	40.5	627	4	US-09-343-361-2 Sequence 4, Appl
36	1271	40.5	627	5	PCT-US93-01959-4 Sequence 4, Appl
37	1256.5	40.0	614	1	US-08-295-814E-12 Sequence 12, Appl
38	1256.5	40.0	614	4	US-09-343-361-12 Sequence 12, Appl
39	1255	40.0	627	1	US-08-291-299-10 Sequence 10, Appl
40	1255	40.0	627	5	PCT-US95-10579-10 Sequence 10, Appl
41	1254	39.9	602	1	US-08-295-814E-2 Sequence 2, Appl
42	1254	39.9	602	4	US-09-343-361-2 Sequence 2, Appl
43	1254	39.9	602	5	PCT-US93-01959-2 Sequence 2, Appl
44	1253.5	39.9	614	1	US-08-291-299-8 Sequence 8, Appl
45	1253.5	39.9	614	5	PCT-US95-10579-8 Sequence 8, Appl

ALIGNMENTS

```
RESULT 1
US-07-959-943-11
: Sequence 11, Application US/07959943
: Patent No. 5418162
: GENERAL INFORMATION:
: APPLICANT: Blakely, Randy D.
: APPLICANT: Fremieu Jr., Robert T.
: APPLICANT: Caron, Marc G.
: TITLE OF INVENTION: Serotonin Transporter CDNA
: NUMBER OF SEQUENCES: 12
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Kenneth D. Sibley, Bell, Seltzer, Park
: ADDRESSEE: and
: ADDRESS: Gibson
: STREET: Post Office Drawer 31107
: CITY: Raleigh
: STATE: NO. 5418162ch Carolina
: COUNTRY: U.S.A.
: ZIP: 27622
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: IBM PC compatible
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/07/959,943
: FILING DATE: 19921014
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Sibley, Kenneth D.
: REGISTRATION NUMBER: 31,665
: REFERENCE/DOCKET NUMBER: 5405.38a
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 919-881-3140
: TELEFAX: 919-881-3175
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 630 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-07-959-943-11

Query Match 55.0%; Score 1726; DB 1; Length 630;
Best Local Similarity 54.5%; Pred. No. 1.3e-149;
Matches 320; Conservative 97; Mismatches 154; Indels 16; Gaps 6;

OY 6 APPAPAPP---DIPATTAQKSRSVVSLTPARQRETWAKKAFLAVGAVDGNW 62
DB 49 AVPSPGAGDTRHSIPAT-----TTLVAELHOGRETWGKKVDFLSTYGVAVDGNW 103
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QY 63 RFFYICQONGGAFLLPYCVMLPFGPLFLELALGQYHRCGGLTLMKRCPLKAGVY 1222
 Db 104 RFFYICQONGGAFLLPYTIMAFEGCPLFYMELALGQYHRCGGLTLMKRCPLKAGVY 1533
 QY 123 AICMIDIYMGWYNTTIGNAVYVYLASIASINSVLPMTSCDNEWNTPLCTPVTSPPOT --- 1799
 Db 164 AICILAFYIASYNTTIMATMALYYLL --- SFFIDQLPMTSCANSNNTGCTNYFSEDNITW 2200
 QY 180 NPMSSIPAKFEFFERNVLEQHKNSGDLDMGPIKPSLALCVFQVFLVYFSLMKYGRSGKV 2399
 Db 221 TLHSTSPAEFFYRRLVQLIHRKGLQDLOGISWOLALCIMIIFVYIYFISIMKGYKTSKV 2800
 QY 240 VWTYALAPYVLLIILARGVTLPGATREGIRYLPPEMHKLONSKWYIDAAQOIFESLPG 2999
 Db 281 VWTYALAPYVLLIILSVLVRGATTPGAMRGVLPFLKRMOKKLELGTWYIDAAQOIFESLPG 3400
 QY 300 EGTLLALSSYNKFNNNCYBDALITSSINCLASIFLAGFVIFSVLGYMAHVONKSIEEYGL 3599
 Db 341 EGVLLAFASYNKFNNNCYBDALITSSINCLASIFLAGFVIFSVLGYMAHVONKSIEEYGL 4000
 QY 360 -GGCVLFYIYPRALMTGWSYVMAITLFLMLITLGLDSTFEGGLNAVYATLDCDEYPRVGR 4188
 Db 401 AGSGLLFYIYAEALNAMPASTFEPAIFELMLITLGLDSTFAGLGVYITAVLDEFPYMAK 4600
 QY 419 HREVFVAVLLLEFYIALPTTGYGVYVLDLNLVNGPGLATLIFVFAEAAQVWCVGVDR 4788
 Db 461 RRRFVAVVAVITOCFESLVTLFFGGAYVYKLLLEERATGPVAVYALIEAVASMFYITQ 5200
 QY 479 FSEDVATMGLHTRPGWFRWCMSYISBPVLLVLFVFSVLAHEMLGGEYTPSMSITGVW 5388
 Db 521 FCRDVEVMEFGSGWFRWCMAISPLFLFIFICSFLMSPQRLRFQYNYWYSIILGYC 5800
 QY 539 MGTATVSCIPYIYVYKLLITPGNCINR-1KTQREVSISPPADSTL 584
 Db 581 IGTSFTCTPYIYAVRLIITPGTEREKRTISITPETPIPCGDIRL 627

RESULT 2
 US-07-959-943-9
 Sequence 9, Application US/0795943
 Patent No. 541862
 GENERAL INFORMATION:
 APPLICANT: Blakely, Randy D.
 APPLICANT: Fremean Jr., Robert T.
 APPLICANT: Caron, Marc G.
 TITLE OF INVENTION: Serotonin Transporter CDNA
 NUMBER OF SEQUENCES: 12
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Kenneth D. Sibley, Bell, Seltzer, Park
 ADDRESSEE: and
 ADDRESS: Gibson
 STREET: Post Office Drawer 31107
 CITY: Raleigh
 STATE: No. 541862zh Carolina
 COUNTRY: U.S.A.
 ZIP: 27622
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/959,943
 FILING DATE: 19921014
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Sibley, Kenneth D.
 REGISTRATION NUMBER: 31,665
 REFERENCE/DOCKET NUMBER: 5405.38a
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 919-881-3140
 TELEFAX: 919-881-3175

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? INFORMATION FOR SEQ ID NO: 9:
?   SEQUENCE CHARACTERISTICS:
?       LENGTH: 630 amino acids
?       TYPE: amino acid
?       TOPOLOGY: linear
?   MOLECULE TYPE: protein
?   US-07-959-943-9

Query Match          54.5%; Score 1712; DB 1; Length 630;
Best Local Similarity 54.5%; Pred. No. 2,6e-14;
Matches 315; Conservative 100; Mismatches 147; Indels 16; Gaps 6

QY      17 LPATTA--OKSRSVVSLTP-----ABQRETMARKAKFEFLAVGFAVDLGNVWRPYIC 68
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      50 VPSYSGADEASHSPATATTTLVAELROGBRETFWKMKDFLLSYGAVADGNIMRPYIC 109
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      69 YONGGAFLLPICVMLLPFGGLPFLFLELALQOYHRCGGLTLMKIKCALKGATCAIMD 128
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      110 YONGGAFLLPYTIMAFEGGIPFLFMELALQOYHNGGISIMRKICIFEGIAICIIA 169
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      129 IWGMGYNTFTIGAAVYVLLASLASINSVLPMTSCDNENFTPLCYPTSPQT---NPNST 185
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      170 FYIASYNTNTIIMALKYLLSSL---TDRLPMTSCINSNNTGNCINYPADQNIITWLHSTS 226
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      186 PAKEFEERNVLEOHKNSLDDMGPIKPSLACVEGEVLYTSLMKGVRSAGKVVYATL 245
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      227 PAEEFLRLRHVLQHOskGLQDLDGTTSMQLTLCIVLFIYVIFYFSIMKGVKTSKGVWYAT 286
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      246 APVIVLLILLAGRVTLPGATREGIRYVLPENHKLQNSKVWIDAAQSLEFFSLGPGFGTLLA 305
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      287 FPIIVTVLLVLRGATIPGMRGVYVYLRPNMOKLLETGVWDAQAQFFSLGPGFGYLLA 346
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      306 LSSYNKFNNNKYRDALITSSINCLTSPFLAGVYFSVLGYMAHYONKSIEEYGLE-GRGLV 364
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      347 FASYNKFNNNCKYQDALITSVVNCMTSPFSGVFIYFLVGLYMAEMNEDVSEVAKDAPSL 406
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      365 FIYYPKAIATMGSVYMAIIFFLMLITGLDSTROGLEAVYATLACDEYPRVLRHREYV 424
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      407 FTIYARALINMPSTFFAIIFFFLMLITGLDSTFAGLEGVITVAALDEFPIHMKRWEVY 466
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      425 AVLLLEIYICALPTTYGGVYLVADLLVNYGGLAILFVFEAGAAGVGVGVDFSEDEV 484
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      467 LIYIVTCVGLSLTILTSGGAVYVTLLEERYATGPANVTYALALEAVAMFQITQFCSYK 526
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      485 TWLGHPGMFWRTQWSYISPVFLLVFVSVLAHEMLGGEYTPSYSTIVGVMYGTIV 544
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      527 EMGFEFGFWFRICWVAISPLFLFIICSPQLRFLFYNPHMSIVLGCIGMSYV 586
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      545 SCIEFLIYKILITPGNCINR-IKTIQRPVTSIPPAD 581
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      587 ICIPYIIIRLLISTPGTLKERLIKISITPETPELIPGD 624
      1 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

RESULT 3
US-07-959-943-7
? Sequence 7, Application US/07959943
? Patent No. 5418162
? GENERAL INFORMATION:
?   APPLICANT: Blakely, Randy D.
?   APPLICANT: Fremean Jr., Robert T.
?   TITLE OF INVENTION: Serotonin Transporter cDNA
?   NUMBER OF SEQUENCES: 12
?   CORRESPONDENCE ADDRESS:
?   ADDRESSEE: Kenneth D. Sibley; Bell, Seltzer, Park
?       and
?   ADDRESSEE: Gibson
?   STREET: Post Office Drawer 31107
?   CITY: Raleigh
?   STATE: NO. 5418162ch Carolina
?   COUNTRY: U.S.A.
?   ZIP: 27622
? COMPUTER READABLE FORM:

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Query Match	54.4%	Score 1710	DB 1	Length 607
Best Local Similarity	54.6%	Pred. No. 3.7e148		
Matches 315	Conservative	98	Mismatches 148	Indels 16
				Gaps 6

[illegible]

RESULT 4
US-07-879-617A-12
; Sequence 12, Application US/07879617A
; Patent No. 5580775
; GENERAL INFORMATION:

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1  APPLICANT:  Fremeanu Jr., Robert T.
2  APPLICANT:  Caron, Marc G.
3  APPLICANT:  Blakely, Randy D.
4  TITLE OF INVENTION:  A High Affinity L-Proline Transporter
5  NUMBER OF SEQUENCES:  13
6  CORRESPONDENCE ADDRESS:
7  ADDRESSEE:  Kilpatrick & Cody
8  STREET:  1100 Peachtree Street, Suite 2800
9  CITY:  Atlanta
10 STATE:  Georgia
11 COUNTRY:  U.S.
12 ZIP:  30309
13
14 COMPUTER READABLE FORM:
15 MEDIUM TYPE:  Floppy disk
16 COMPUTER:  IBM PC compatible
17 OPERATING SYSTEM:  PC-DOS/MS-DOS
18 SOFTWARE:  Patent In Release #1.0, Version #1.25
19 CURRENT APPLICATION DATA:
20 APPLICATION NUMBER:  US/07/879,617A
21 FILING DATE:  19920501
22 CLASSIFICATION:  435
23
24 ATTORNEY/AGENT INFORMATION:
25 NAME:  Pabst, Patrea L.
26 REGISTRATION NUMBER:  31,284
27 REFERENCE/DOCKET NUMBER:  EMI109
28 TELECOMMUNICATION INFORMATION:
29 TELEPHONE:  404-815-6508
30 TELEFAX:  404-815-6555
31
32 INFORMATION FOR SEQ ID NO:  12:
33 SEQUENCE CHARACTERISTICS:
34 LENGTH:  607 amino acids
35 TYPE:  AMINO ACID
36 STRANDEDNESS:  single
37 TOPOLOGY:  linear
38 MOLECULE TYPE:  protein
39 HYPOTHETICAL:  NO
40 ANTI-SENSE:  NO
41 FRAGMENT TYPE:  N-terminal
42 ORIGINAL SOURCE:
43 ORGANISM:  Rattus
44 TISSUE TYPE:  Brain - serotonin transporter
45
46 FEATURE:
47 NAME/KEY:  Active-site
48 LOCATION:  95..96
49 OTHER INFORMATION:  /note= "Leucine zipper motif"
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51 FEATURE:
52 NAME/KEY:  Active-site
53 LOCATION:  102..103
54 OTHER INFORMATION:  /note= "Leucine zipper motif"
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56 FEATURE:
57 NAME/KEY:  Active-site
58 LOCATION:  109..110
59 OTHER INFORMATION:  /note= "Leucine zipper motif"
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61 FEATURE:
62 NAME/KEY:  Active-site
63 LOCATION:  116..117
64 OTHER INFORMATION:  /note= "Leucine zipper motif"
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66 US-07-879-617A-12
67
68 Query Match 54.1%; Score 1699; DB 1; Length 607;
69 Best Local Similarity 54.4%; Pred. No. 3,8e-147;
70 Matches 314; Conservative 98; Mismatches 149; Indels 16; Gaps 6

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Db 148 YIASYNTITIAAMLAAYLLISSL---IDRLPMTSCITSMNTGCTNYFADQDITWTHTSP 204

Qy 187 AKFEERNLEQHSKSGDDMGCPKPSALCYGVFVLVYTSLKGVRSGAKVWWTALA 246

Db 205 AEEFYLRHYLDIQSKSGDGLDTISMOQLTCLVLLFTFYFISIMKGVYTSKVVWWTATP 264

Qy 247 PYVALLILLARGVLTGATGEGIRYVLTTPMHLQMSKWIIDAASQIFPSLPGSGTLLAL 306

Db 265 PYIVSLVLYKRGATLTGANKRGVVFLEKPKMOKLLETGYWVWDAADQIFPSLPGFVLLAF 324

Qy 307 SSYNKNNNCYRDALTTTSSINCLTSLFAGVFYFVSLGYMAHVNKSIIEVGLF 365

Db 325 ASYNKNNNCYQDALVTSYVNCMTSPVSGFVIFVLGYMAEHRNEDSEVAKDQPSLFF 384

Qy 366 IYVPEALATMTGSEVFALITFFMLITLLGLDSTFGGLEAVTALCDEYPRVIGRHEVFVA 423

Db 385 IYFAEIAANMPASTFFAIFLFFMLITLLGLDSTFGGLEAVTALDEPFIHAKRREVFV 444

Qy 426 VLLFLFYICALPTTGTGGVYLDLNVYGPGLITFYVFAEAGACWYGVDRSEVRT 485

Db 445 IVVITCVLSGLLTITSGGAYVVTLLLEBATGCAVLTVALLEAVASWFGYGTQPSYKE 504

Qy 486 MLGTHPGWFWRKCMYSIYSPVFLLYFVFSVLAHEHMLGEGEYTSWSTITGVWVTGTVS 545

Db 505 MLGSPGWFWRICWVAISPLFLFITICSPILMSPQRLRFQYNYPHMSIVLGICGMSVI 564

Qy 546 CIPLYITIKLITPGNCINR-IKTIQREPVYSIPAD 581

Db 565 CIPLYITIRLISTPGTLKRIIRIKSTPETPPEIIPGD 601

RESULT 5
 US-08-753-985-12
 : Sequence 12, Application US/08753985
 : Patent No. 5759788
 : GENERAL INFORMATION:
 : APPLICANT: Fremean Jr., Robert T.
 : APPLICANT: Carmon, Marc G.
 : APPLICANT: Blakely, Randy D.
 : TITLE OF INVENTION: A High Affinity L-Proline Transporter
 : NUMBER OF SEQUENCES: 13
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Kilpatrick & Cody
 : STREET: 1100 Peachtree Street, Suite 2800
 : CITY: Atlanta
 : STATE: Georgia
 : COUNTRY: U.S.
 : ZIP: 30309
 :
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Floppy disk
 : COMPUTER: IBM PC compatible
 : OPERATING SYSTEM: PC-DOS/MS-DOS
 : SOFTWARE: Patentin Release #1.0, Version #1.25
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/753,985
 : FILING DATE: 03-DEC-1996
 : CLASSIFICATION: 536
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: US 07/879617
 : FILING DATE: 01-MAY-1992
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Pabst, Patricia L.
 : REGISTRATION NUMBER: 31,284
 : REFERENCE/DOCKET NUMBER: EX0109
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 404-815-6508
 : TELEFAX: 404-815-6555
 : INFORMATION FOR SEQ. ID NO. 12:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 607 amino acids
 : TYPE: amino acid
 : STRANDEDNESS: single
 : TOPOLOGY: linear

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? MOLECULE TYPE: protein
? HYPOTHEICAL: NO
? ANTI-SENSE: NO
? FRAGMENT TYPE: N-terminal
? ORIGINAL SOURCE:
? ORGANISM: Rattus
? TISSUE TYPE: Brain - serotonin transporter
? FEATURE:
? NAME/KEY: Active-site
? LOCATION: 95..96
? OTHER INFORMATION: /note= "Leucine zipper motif"
? FEATURE:
? NAME/KEY: Active-site
? LOCATION: 102..103
? OTHER INFORMATION: /note= "Leucine zipper motif"
? FEATURE:
? NAME/KEY: Active-site
? LOCATION: 109..110
? OTHER INFORMATION: /note= "Leucine zipper motif"
? FEATURE:
? NAME/KEY: Active-site
? LOCATION: 116..117
? OTHER INFORMATION: /note= "Leucine zipper motif"
US-08-753-985-12

Query Match      54.1%   Score 1699; DB 1; Length 607;
Best Local Similarity    54.4%   Pred No.3.8e-147;
Matches 314; Conservative 98; Mismatches 149; Indels 16; Gaps 6;

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Query Match	54.1%	Score 1699;	DB 1	Length 607;
Best Local Similarity	54.4%	Pred. No. 3,8e-147;		
Matches 314;	Conservative 98;	Mismatches 149;	Indels 16;	Gaps 6;
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DB	28	PQTSAGDEASHSIPAAITTTLVAELRQGERGEMKKMDLTSIGYAVDLGNIMRPEICY	87	
QY	70	ONGGAGFLIPRCVMLTFEGGLPLFLELALGOYHRCGCGLTIWKRICPALKGVNACMDI	129	
DB	88	ONGGAGFLPPTIIMAFEGGIPLPFTWELALGOYHRCGCISIMKICDPIKGIYALCIAF	147	
QY	130	YMGWYNTIIMAVYVLIASLASINSVLPMTSCDQENMTPLCTPVSPTSPOT--NPNSSTP	186	
DB	148	YIASYNTIIMALYKLSL--TDRLPMTSCSNMTNGCTNCFADNDITWTLHSHSP	204	
QY	187	AKEPERNVLEOHKNSGLDDMGPIKPSIALCVFGVFLVYFSLMKGVRSAGKVVWVYALA	246	
DB	205	AEEFLRHVLDIOHOSKGLDDGTISMOULTLIVLFVYFISIMKGVTSCKVWVYATPF	264	
QY	247	PYVULLILLAGVTLPGATBEGRVLYLPEDMKLOSKXWIDAASQIFPSLPGCECTLLAL	306	
DB	265	PYVLSVLLVGCATLEGAMRGVFLFKRNOKLLETGVWVDAADQIFPSLGGFEVLLAF	324	
QY	307	SSYNFNKNCRDALITSSINCLTSFLGAFIYFSVIGAMVANYQNSIEVGLG--GGLGVF	365	
DB	325	ASYNKFNKNCQODALVTVSVNCMNSFVSGVYITFLGVMAEKRNNDVSEVAKDAGPSLLE	384	
QY	366	IYBPBALMTMGSVFWAIIFFLMLLTIGLDUSTFGGLEAVTALCDEYPRVLGRHREYVA	425	
DB	385	ITYEVAIENMPASFEFAIIFELMLTLTGLDSTFAGLEGVITAVDLDEPFHIAWAKREWFVL	444	
QY	426	VLLFEIYICALPTTGGVLYVDLLNNGPGALILFVFAEAGCWMYGVDRPSEDRFT	485	
DB	445	IVTLTCVGLSLTTTSGGAYVVTLEEVATGPRAVLTALIRAVAAWSWYGTQFCSVDKE	504	
QY	486	MLGHTPGWFRCTMSYSIPVFLVLFVFSVAHEEMLEGEXTYPSMSITVGMWMTGTVVS	545	
DB	505	MLGSPGFMWICWVAISPLPLFLFICGSFMSPPQLRFOYNTPHMSIVLGLGICGMSIVI	564	
QY	546	CIPLYIIVKLLITPGNCINR-IKTIOREPVTSIPAD	581	
DB	565	CIPYIIVRLISTPGLTKERIKTSITPETPEIPICGD	601	

Query Match 51.1%; Score 1605.5; DB 1; Length 617;
 Best Local Similarity 51.6%; Pred. No. 1.4e-138;
 Matches 307; Conservative 106; Mismatches 155; Indels 27; Gaps 10;

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QY 1 MPPSDAPP---APTAAPPDLPAA-TTAAQ---KSRSVVSLT-----PARQRETMAKKAEF 47
DB 6 MNPQVQPPNNGADGPEQPLRARKRTAEELVYKERNGVOCCLAPRDGDAQPRETWGKKIDF 65
QY 48 LLAVGFAVDLGNWRFPIYICONGGAFILPYCVMILFGSLPFLFELALGOYHRCGL 107
DB 66 LLSVGFVADLANWRFPIYICONGGAFILPYLFLIAGPLFYMELALGOYHRCGAA 125
QY 108 TLKMRICPALKGVGVAICMIDYMGMYNTIIGNAVYLLASLASINSVLPWTSCDNE 167
DB 126 TWMK-ICPEFGVGVAVILALVGYFYNYIAMSLLYLFSSP-TLN--LPMWDCGHWN 181
QY 168 TPCLCT-----PYSPT--NPNSSTPAKEFEFERNVLEQHKNSGLDMGPIKSLALCV 218
DB 182 SPNCTDPKLLNGSVLGNHTKYSKYKFTPAEYERGVHLHSSGIDHIGLPOMQLLCL 241
QY 219 FGVEFLVYFSLMKGVRSAGKVVWVTALAPYVLLILLARGVTLPGATEGIRYVLTPEMHK 278
DB 242 MVVIVLVLFSLMKGVKTSKGKVVWITATLPYFLVFLVHGVTLPGASGINAYLHIDFYR 301
QY 279 LONSKWIDAASQIFSLGPGFGLLALSSYNKFNNNCYRDALITSSINCLTSLAGFVI 338
DB 302 LKEATVWIDAATQIFSLGAGFGLVLAFASYNKFDDNCCYRDALLTSSINCLTSLFVSGFAI 361
QY 339 FSVLGMAHVONKSTEEVLEGPGLVFVYVEALATATMGSVFMAITFLMILITGLDSTF 398
DB 362 FSLIGMAHEKVNIEDVATEGAGVFLYPEALISTLGSFTFMAVFFVMLALGLDSSM 421
QY 399 GLEAVTTALCDEYPRVLRHREVEVAVLLFIYICALPTTYGGVYLVLDLNYVPGLA 458
DB 422 GGMNAVITGLADDF-QYLAKRHRKLFTEGVTESTFLALFCTIKGIIYVLTLDFFACTS 480
QY 459 ILFVFAEAGVGVNVDRESEDEVRTMLGHTPGEMWRTCSYISPVFLVLFVSVLAH 518
DB 481 ILFVFAEAGVGVNVDRESEDEVRTMLGHTPGEMWRTCSYISPVFLVLFVSVLAH 540
QY 519 EEMLGGEYTPSWSTIYGVWMTGTVVSCIPLYITIKLLITPGNCINRIKTIQORE 573
DB 541 KPLTYDYEIPPMANWGMGIALSSMVLPLYIYIKFLSTOGSLMERLAVGITPE 595

```

RESULT 8
 HS-08-301-722A-3

Sequence 3, Application US/08301722A
 Patent No. 5756307

GENERAL INFORMATION:

APPLICANT: Uhl, George R.
 APPLICANT: Vandenberg, David
 APPLICANT: Persico, Antonio
 TITLE OF INVENTION: SEQUENCE OF HUMAN DOPAMINE TRANSPORTER
 NUMBER OF SEQUENCES: 10
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Birch, Stewart, Kolasch & Birch, LLP
 STREET: P.O. Box 747
 CITY: Falls Church
 STATE: Virginia
 COUNTRY: USA
 ZIP: 22040-3487
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/301.722A
 FILING DATE: 07-SEP-1994
 CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
 NAME: Murphy Jr., Gerald M.
 REGISTRATION NUMBER: 28,977
 REFERENCE/DOCKET NUMBER: 1173-406P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 703-205-8000
 TELEFAX: 703-205-8050
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 617 amino acids
 TYPE: amino acid
 STRANDEDNESS: not relevant
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHEICAL: NO
 ANTI-SENSE: NO
 FRAGMENT TYPE: N-terminal
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 1..617
 OTHER INFORMATION: /note="Hnat sequence, see Fig. 5"

Query Match 51.1%; Score 1605.5; DB 1; Length 617;
 Best Local Similarity 51.6%; Pred. No. 1.4e-138;
 Matches 307; Conservative 106; Mismatches 155; Indels 27; Gaps 10;

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QY 1 MPPSDAPP---APTAAPPDLPAA-TTAAQ---KSRSVVSLT-----PARQRETMAKKAEF 47
DB 6 MNPQVQPPNNGADGPEQPLRARKRTAEELVYKERNGVOCCLAPRDGDAQPRETWGKKIDF 65
QY 48 LLAVGFAVDLGNWRFPIYICONGGAFILPYCVMILFGSLPFLFELALGOYHRCGL 107
DB 66 LLSVGFVADLANWRFPIYICONGGAFILPYLFLIAGPLFYMELALGOYHRCGAA 125
QY 108 TLKMRICPALKGVGVAICMIDYMGMYNTIIGNAVYLLASLASINSVLPWTSCDNE 167
DB 126 TWMK-ICPEFGVGVAVILALVGYFYNYIAMSLLYLFSSP-TLN--LPMWDCGHWN 181
QY 168 TPCLCT-----PYSPT--NPNSSTPAKEFEFERNVLEQHKNSGLDMGPIKSLALCV 218
DB 182 SPNCTDPKLLNGSVLGNHTKYSKYKFTPAEYERGVHLHSSGIDHIGLPOMQLLCL 241
QY 219 FGVEFLVYFSLMKGVRSAGKVVWVTALAPYVLLILLARGVTLPGATEGIRYVLTPEMHK 278
DB 242 MVVIVLVLFSLMKGVKTSKGKVVWITATLPYFLVFLVHGVTLPGASGINAYLHIDFYR 301
QY 279 LONSKWIDAASQIFSLGPGFGLLALSSYNKFNNNCYRDALITSSINCLTSLAGFVI 338
DB 302 LKEATVWIDAATQIFSLGAGFGLVLAFASYNKFDDNCCYRDALLTSSINCLTSLFVSGFAI 361
QY 339 FSVLGMAHVONKSTEEVLEGPGLVFVYVEALATATMGSVFMAITFLMILITGLDSTF 398
DB 362 FSLIGMAHEKVNIEDVATEGAGVFLYPEALISTLGSFTFMAVFFVMLALGLDSSM 421
QY 399 GLEAVTTALCDEYPRVLRHREVEVAVLLFIYICALPTTYGGVYLVLDLNYVPGLA 458
DB 422 GGMNAVITGLADDF-QYLAKRHRKLFTEGVTESTFLALFCTIKGIIYVLTLDFFACTS 480
QY 459 ILFVFAEAGVGVNVDRESEDEVRTMLGHTPGEMWRTCSYISPVFLVLFVSVLAH 518
DB 481 ILFVFAEAGVGVNVDRESEDEVRTMLGHTPGEMWRTCSYISPVFLVLFVSVLAH 540
QY 519 EEMLGGEYTPSWSTIYGVWMTGTVVSCIPLYITIKLLITPGNCINRIKTIQORE 573
DB 541 KPLTYDYEIPPMANWGMGIALSSMVLPLYIYIKFLSTOGSLMERLAVGITPE 595

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RESULT 9

US-08-240-783B-3
 Sequence 3, Application US/08240783B
 Patent No. 5756348
 GENERAL INFORMATION:

NAME/KEY: Active-site
 LOCATION: 109..110
 OTHER INFORMATION: /note= "Leucine zipper motif"
 FEATURE:
 NAME/KEY: Active-site
 LOCATION: 116..117
 OTHER INFORMATION: /note= "Leucine zipper motif"
 US-08-753-985-11

Query Match
 Best Local Similarity 51.1%; Score 1605.5; DB 1; Length 617;
 Matches 307; Conservative 106; Mismatches 155; Indels 27; Gaps 10;

1 MPPSDAPP---APTAPPPDLPA-TTAQ-----KRSVVVSLT-----PARQETMAKKAEF 47
 6 MNPQVQPNNGADTPEQPLRAKRTAELLVYKERNGVOCCLAPRQGDQAPRETWCKKIDF 65
 48 LLAVGFADLGNVRRFPYICQNGGAFLLPYCYMLLEGGLEPLFLELALGOYHRCGL 107
 66 LLSVGFADLGNVRRFPYICQNGGAFLLPYCYMLLEGGLEPLFLELALGOYHRCGL 125
 108 TLMKRICPALKGVGAICMIDYMGMYNTIIGMAYVYLIALASINSVLPWTSQDNEMN 167
 126 TWK-ICPEFGVGAVALIALYVGFYVNIAMSLYLFSSF-TLN--LPWTDGHTWN 181
 168 TPLCT-----PVTSPT--NPNSSTPAKEFEERNVLEOHKSNGLDMDGPIKPSLACV 218
 182 SPNCIDPKLNGSVLGNHTKYSKYFTPAEYERGVHLHSSGIDHIGLPQMLLCL 241
 219 FGVFVLYFSLMKGVRSAGKVVWTALAPYVLLILLAGVTLPGATEGIRYVLPENHK 278
 242 MVVVLYLVFSLMKGVRSAGKVVWTALAPYVLLILLAGVTLPGATEGIRYVLPENHK 301
 279 LQNSKVWIDASQIFFSIGPFGTLLALSSYKFNNNCYRDLITSSINCLSPLAGVI 338
 302 LKEATVWIDATQIFFSIGAGGVILAFASYNKFNDCRYRDLITSSINCLSPLAGVI 361
 339 FSVLGMAYHONKSIEEVLGEGPGLVFIYVPAIATMGSVFMAIIFLMLITLGDSTF 398
 362 FSLIGYMAHEKVNIEDVATGEGAGLVFIYVPAIATMGSVFMAIIFLMLITLGDSTF 421
 399 GGLEAVTALCDEYRVLGRHREVFVAVLLFIYICALPTTYGGVYLVLDLNVYGPGLA 458
 422 GMEAVITGLADD-QLKRRHKLFTFGVSTFLLAFCITKGGIYVTLDDTFAAGTS 480
 459 ILFVFAEAGVYGVYGVDRFSEDEVRTMLGHTPGFMFTGMSYISPVLLVLFVSVLAH 518
 481 ILFAVLMIAIGVSWFYGVDRFENDIQOMGFRPGLYWRKLCWKFPAPLLEFVVVSIINF 540
 519 EEMLGEYTPSMSTVCGWMTGTVSCIPLYIYKLLITPGNCINRIKTIOPE 573
 541 KPLTYDDYIFPPMAMWVGIALSSMVLVPIYVITKFLSTOGSLMERLAYGITPE 595

RESULT 11
 US-09-084-813-3
 Sequence 3, Application US/09084813
 Patent No. 6127131
 GENERAL INFORMATION:
 APPLICANT: Smith, Kelli
 APPLICANT: Borden, Laurence A.
 APPLICANT: Branchek, Theresa
 APPLICANT: Hartig, Paul R.
 APPLICANT: Weinshank, Richard L.
 TITLE OF INVENTION: DNA ENCODING A GLYCINE TRANSPORTER AND USES
 TITLE OF INVENTION: THEREOF
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Cooper & Dunham LLP
 STREET: 1185 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: U.S.A.

ZIP: 10036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.24
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/084, 813
 FILING DATE: 26-MAY-1998
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: White, John P.
 REGISTRATION NUMBER: 28,678
 REFERENCE/DOCKET NUMBER: 1795/39875-A2-PCT-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 391-0525
 TELEFAX: (212) 391-0525
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 617 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHEICAL: N
 FRAGMENT TYPE: Internal
 ORIGINAL SOURCE:
 ORGANISM: HUMAN NORADRENALINE TRANSPORTER
 US-09-084-813-3

Query Match
 Best Local Similarity 51.1%; Score 1605.5; DB 3; Length 617;
 Matches 307; Conservative 106; Mismatches 155; Indels 27; Gaps 10;

1 MPPSDAPP---APTAPPPDLPA-TTAQ-----KRSVVVSLT-----PARQETMAKKAEF 47
 6 MNPQVQPNNGADTPEQPLRAKRTAELLVYKERNGVOCCLAPRQGDQAPRETWCKKIDF 65
 48 LLAVGFADLGNVRRFPYICQNGGAFLLPYCYMLLEGGLEPLFLELALGOYHRCGL 107
 66 LLSVGFADLGNVRRFPYICQNGGAFLLPYCYMLLEGGLEPLFLELALGOYHRCGL 125
 108 TLMKRICPALKGVGAICMIDYMGMYNTIIGMAYVYLIALASINSVLPWTSQDNEMN 167
 126 TWK-ICPEFGVGAVALIALYVGFYVNIAMSLYLFSSF-TLN--LPWTDGHTWN 181
 168 TPLCT-----PVTSPT--NPNSSTPAKEFEERNVLEOHKSNGLDMDGPIKPSLACV 218
 182 SPNCIDPKLNGSVLGNHTKYSKYFTPAEYERGVHLHSSGIDHIGLPQMLLCL 241
 219 FGVFVLYFSLMKGVRSAGKVVWTALAPYVLLILLAGVTLPGATEGIRYVLPENHK 278
 242 MVVVLYLVFSLMKGVRSAGKVVWTALAPYVLLILLAGVTLPGATEGIRYVLPENHK 301
 279 LQNSKVWIDASQIFFSIGPFGTLLALSSYKFNNNCYRDLITSSINCLSPLAGVI 338
 302 LKEATVWIDATQIFFSIGAGGVILAFASYNKFNDCRYRDLITSSINCLSPLAGVI 361
 339 FSVLGMAYHONKSIEEVLGEGPGLVFIYVPAIATMGSVFMAIIFLMLITLGDSTF 398
 362 FSLIGYMAHEKVNIEDVATGEGAGLVFIYVPAIATMGSVFMAIIFLMLITLGDSTF 421
 399 GGLEAVTALCDEYRVLGRHREVFVAVLLFIYICALPTTYGGVYLVLDLNVYGPGLA 458
 422 GMEAVITGLADD-QLKRRHKLFTFGVSTFLLAFCITKGGIYVTLDDTFAAGTS 480
 459 ILFVFAEAGVYGVYGVDRFSEDEVRTMLGHTPGFMFTGMSYISPVLLVLFVSVLAH 518
 481 ILFAVLMIAIGVSWFYGVDRFENDIQOMGFRPGLYWRKLCWKFPAPLLEFVVVSIINF 540
 519 EEMLGEYTPSMSTVCGWMTGTVSCIPLYIYKLLITPGNCINRIKTIOPE 573
 541 KPLTYDDYIFPPMAMWVGIALSSMVLVPIYVITKFLSTOGSLMERLAYGITPE 595

RESULT 12

PCT-US92-09662-3

Sequence 3, Application PC/TUS9209662

GENERAL INFORMATION:

APPLICANT: Smith, Kelli

APPLICANT: Borden, Laurence A.

APPLICANT: Branche, Theresa

APPLICANT: Hartig, Paul R.

APPLICANT: Weinstanek, Richard L.

TITLE OF INVENTION: DNA ENCODING A GLYCINE TRANSPORTER AND USES THEREOF

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESS: Cooper & Dunham

STREET: 30 Rockefeller Plaza

CITY: New York

STATE: New York

COUNTRY: U.S.A.

ZIP: 10112

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.24

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/09662

FILING DATE: 19921112

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: White, John P.

REGISTRATION NUMBER: 28, 678

REFERENCE/DOCKET NUMBER: 1795/39875-A-PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 977-9550

TELEFAX: (212) 977-9809

TELEX: 422523 COOP UI

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 617 amino acids

TYPE: AMINO ACID

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHEICAL: N

FRAGMENT TYPE: Internal

ORIGINAL SOURCE:

ORGANISM: HUMAN NORADRENALINE TRANSPORTER

PCT-US92-09662-3

Query Match 51.1%; Score 1605.5; DB 5; Length 617;

Best Local Similarity 51.6%; Pred. No. 1.4e-138;

Matches 307; Conservative 106; Mismatches 155; Indels 27; Gaps 10;

QY 1 MPPSDAP---APYAPPPDLPA-TTAQ---KRSYVVSLT---PARQETWAKKAEF 47
DB 6 MNPQVQPENNGADTGEQPLRAKTAELLVYKERNGVQCLAPRDGDAQPRETWGKKIDF 65
QY 48 LLAIVGFAVDLGNVWFYICYNONGGAFILPCWLLLGGLPLFLELALGQYHRCGL 107
DB 66 LLSVVGFAVDLANWFFPLCTKNGGALPLPTLLTAGMFLFMEALGQYNREGA 125
QY 108 TLMKRICPAKGVAYICMIDIMYMGVYNTIIGMAVYVLIASIASINSVLPMTSCNEN 167
DB 126 TWK-ICPFKGVAYVILALYGVYVITAMSLYLFSSP-TLN-LPMTDCHTN 181
QY 168 TPLCT-----PVTSPT- -NPNSSTPAKEFFERNVLDQHSNGLDDMGPIKPSIALCV 218
DB 182 SPNCSTPKLLNGSVLGNHTKYSKYKFTPAAEFERGVLLHRESSGTHDIGLQMOQLLCT 241
QY 219 FGVFVLYVESIMKGVSAKVVWVATLAPYVLLILLARGVTLPGATGGRVYLTPEEMK 278
DB 242 MYVYVLYSLMGVTSKGVVWITATPLFVLYLVGLVGLPGASNGINATLHIDFYR 301
QY 279 LNSKVMIDAASQIFPSLPGFGLTLLALSSYNKFNNNCYRDALITSSINCLTSFLAGVY 338

RESULT 13

US-08-301-722A-2

Sequence 2, Application US/08301722A

Patent No. 5756307

GENERAL INFORMATION:

APPLICANT: Uhl, George R.

APPLICANT: Vandenberg, David

APPLICANT: Persico, Antonio

TITLE OF INVENTION: SEQUENCE OF HUMAN DOPAMINE TRANSPORTER

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESS: Birch, Stewart, Kolasch & Birch, LLP

STREET: P.O. Box 747

CITY: Falls Church

STATE: Virginia

COUNTRY: USA

ZIP: 22040-3487

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/301,722A

FILING DATE: 07-SEP-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Murphy Jr., Gerald M.

REGISTRATION NUMBER: 28,977

REFERENCE/DOCKET NUMBER: 1173-406P

TELECOMMUNICATION INFORMATION:

TELEPHONE: 703-205-8000

TELEFAX: 703-205-8050

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 620 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-301-722A-2

Query Match 49.1%; Score 1542; DB 1; Length 620;

Best Local Similarity 49.9%; Pred. No. 9e-133;

Matches 282; Conservative 110; Mismatches 157; Indels 16; Gaps 5;

QY 17 LPATTAOKRSVVSSTPARQETWAKKAEFLAIVGFAVDLGNVWFYICYNONGGAF 76
DB 42 LNSSTLTNRQ---SVEVQDRQETWAKKIDFLSLVIGFAVDLANWFFPLCTKNGGAF 98
QY 77 LIPYCVMLLGGGLPLFLELALGQYHRCGLTLMKRICPAKGVAYICMIDIMYMGVYN 136
DB 99 LVPYLLFVNIAGMPLFYMELALGQFNREGAGVWK-ICPILKGVGFTVILISLYGCFYV 157

